## EL CAMINO AVENUE CRASHES

| ALL INJURY <br> CRASHES | $\circ 117$ | $\circ 16$ | $\circ 11$ |
| :--- | :--- | :--- | :--- |
| FATAL AND <br> SEVERE CRASHES <br> *one crash ivovered both a pedesstrian and bicyclist, and is identified under botht mode categogries. |  |  |  |

KEY CHARACTERISTICS
SPEED
IIMIT
30 One travel lane in each direction.
class il bicycle lanes along most of the corridor.



## CORRIDOR-WIDE CRASH TYPES



| $\uparrow \quad$ Proceeding Straight |
| :---: |
| $80 \%$ of drivers were proceeding straight or stopped at the time of the crash. |
| $123456$ |




## Daytime

10 of 11 total bicycle crashes occured between 9 AM and 6 PM.

1) (2) (3) 4) 5 6 7) 8) 9 (10 i1)
(1) Numbers that are turned on represent a location


## EL CAMINO AVENUE CORRIDOR-WIDE RECOMMENDATIONS



What You See Today


What's Proposed

Corridor-Wide Recommendations


## EL CAMINO AVENUE RECOMMENDATIONS

Location-Specific Recommendations


## EL CAMINO AVENUE IMPROVEMENTS



## Advanced Dilemma-Zone Detection

Advanced dilemma-zone detection enhances safety at signalized intersections by modifying traffic control signal timing on the fly to reduce the number of drivers that may have difficulty deciding whether o stop or proceed during a yellow phase. This may reduce rear-end crashes associated with unsafe stopping and angle crashes due to red light running


## Consolidate Driveways

Bike Safety, Pedestrian Safety visibility
Reducing the number of driveway entrances/ xits through consolidation limits the exposure of bicyclists, pedestrians, and drivers to vehicles entering or exiting driveways, reducing conflicts.


## Partial Closure

Bike Safety, Crossings, Pedestrian Safety
Partial closures, using a physical barrier across ne direction of traffic at an intersection allow full bicycle and pedestrian passage while estricting vehicle access in one direction. This strategy can be used to minimize conflict points at complicated intersections.


Bicycle Conflict Zone Markings ©) Bike Safety

Green pavement within a bicycle lane to increase visibility of bicyclists and to reinforce bicycle priority. The green pavement is used as a spot treatment in conflict areas such as driveways.

## 11

## Dual Curb Ramps

© Pedestrian Safety
Dual curb ramps improve ADA accessibility at all intersection approaches so that pedestrians with mobility challenges, or those pushing carts or strollers, can safely enter and exit all crosswalks.


## Bulbout

OC Crossings, Pedestrian Safet, Speed, Visibility
Raised devices, usually constructed from concrete, landscaping, or paint and plastic materials, that narrow the roadway to reduce speeds of turning vehicles, improve sight lines, and shorten pedestrian crossing distances.


Extend Signal Clearance Time (3) Signal/Signage

Extending yellow and all red time allows drivers and bicyclists to safely cross through a signalized intersection before conflicting traffic movements are permitted to enter the intersection

## (9)

## Pedestrian Hybrid Beacon

$\bigcirc$ O Crossings, Pedestrian Safety, Signall/Signage, Speed, Visibility
Pedestrian-activated beacon used at mid-block crosswalks to notify oncoming motorists to stop with a series of red and yellow lights.


## Close Bike Lane Gap

OB Bike safey
Closing gaps between bicycle lanes increases the amount of dedicated facilities bicyclists can use, reducing mixing of bicyclists and drivers and increasing network connectivity and visibility of bicyclists in the roadway.

## (III)

## High Visibility Crosswalk

Crossings. Pedestrian Safety visibility
A crosswalk designed to be more visible o approaching drivers, striped with ladder markings using high-visibility material such as thermoplastic tape instead of paint.


## Pedestrian Scale Lighting

3 Crossings, Pedestrian Safety, Visibility
Appropriate quality and placement of lighting can enhance an environment as well as increase comfort and safety. Pedestrian-scal lighting is lower in height than standard streetlighting and is spaced closer together.

## Close Sidewalk Gap

9 Pedestrian Safery
Providing continuous sidewalks for pedestrians provides a separated facility for people to walk long the roadway, and can help minimize collisions with pedestrians walking in the road

## f NS3 25\%

## New Traffic Signal

© Signals/Signage
New traffic signals help organize travel of all modes an intersection, limiting interactions between vehicles, pedestrians, and bicyclists with conflicting movements. New signals can have a traffic calming effect on long, high-speed straightaways.


Pedestrian Scramble
Crossings, Pedestrian Safety, Signal/s/ignage
Restricts vehicular movements to provide an xclusive signal phase allowing pedestrians to cross in all directions, including diagonally.

## EL CAMINO AVENUE IMPROVEMENTS



## Prohibit Left Turn

O Bike Safety, Crossings, Pedstrian Safety, Signals/Signage
Bans left turns at locations where a turning vehicle may conflict with pedestrians in the crosswalk or where opposing traffic volume is high. Reduces pedestrian interaction with vehicles when crossing.

## Roundabout

Bike Safety, Pedestrian Safety, Signals/Signage
Roundabouts are large circular islands, placed the middle of an intersection, which direct
ow in a continuous circular direction around he intersection. Roundabouts can reduce the umber of conflict points, compared to an uncontrolled intersection, and decrease vehicle speeds due to intersection geometry. Converting signalized intersections to roundabouts can be specially effective at complex intersections or intersections with high left-turn volumes.


Prohibit Turns During Pedestrian Phase
Q Corssings. Pedestrian Safety, Signals Signaye
Restricts left or right turns during the pedestrian crossing phase at locations where a turning vehicle may conflict with pedestrians in the crosswalk. This restriction may be displayed with a blank-out sign.

## $80^{\circ}$

Shorten Signal Cycle Length
-) Signal//ignag
Reducing the cycle length at intersections ma reduce the delay experienced by vehicles, bicyclists, and pedestrians. When delay is significant, road users are more inclined to ignore signal indications.


## Raised Median

$Q$ Cossings Pepestestins sidety.s.seed
Curbed sections in the center of the roadway that are physically separated from vehicular traffic. Raised medians can also help control access to and from side streets and driveways, reducing conflict points


## Realign Intersection to 90 Degrees

9 Crossings, Pedestrian Safety, Speed, Visibility
By eliminating acute or obtuse angles between intersection roadways, intersection sight distance may be improved, allowing drivers to see pedestrians more easily. Right-angle intersections can also help to slow down turning vehicles.


## Road Closure

Q Bike Safety, Crossings, Pedestrian Safety
Road closures, using a physical barrier, allow full bicycle and pedestrian passage while estricting vehicle access. This strategy can be used to minimize conflict points at complicated intersections or to minimize conflicting movements due to turning vehicles

## Slow Green Wave

$\checkmark$ Signal//Signage, Speed
A series of traffic signals coordinated to allow for slower vehicle travel speeds through several intersections along a corridor. Coordinating signals for slower travel speeds gives bicyclists and pedestrians more time to cross safely and encourages drivers to travel at slower speeds.

